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(57)Abstract:

PROBLEM TO BE SOLVED: To enhance the efficiency of a radial turbine without restricting rotational speeds of a centrifugal compressor and a radial turbine to the same speed.

SOLUTION: A centrifugal compressor 13 driven by a motor 3 through a first change gear 12 having a specified speed increasing ratio, an intercooler 29 and a radial turbine 15 for adiabatically expanding cooled air and supplying low temperature air to a cooling chamber and transmitting power to the motor 3 through a second change gear 14 having a specified speed reduction ratio are provided.

